BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION : BYATARAYANAPURA

SUB DIVISION: BYATARAYANAPURA

MODIFIED ESTIMATE

NAME OF WORK: *IMPROVEMENTS TO ROADS, DRAIN AT SAMPIGEHALLI AND ROYAL ENCLAVE IN WARD NO.08 JAKKUR.*

WORK ORDER NO: BBMP/EE/BTP/WO/157/2022-23

DATE : 10/03/2023

JOB CODE NO : 008-23-000009

ESTIMATE COST: Rs. 99,00,000.00

Approved Amount: Rs. 72,14,242.92

Modified Amount: 72,13,942.81

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK :- IMPROVEMENTS TO ROADS, DRAIN AT SAMPIGEHALLI AND ROYAL ENCLAVE IN WARD NO.08 JAKKUR

NAME OF AGENCY : M/s. S. S. Road Developers

Prop.: A. S. Mani.

WORK ORDER NO : BBMP/EE/BTP/WO/157/2022-23 Dt: 10-03-2023

WORK CODE : 008-23-000009

Sno	Discription of items	No	L	B	D	Qty	Unit	Rate	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kind of soils Depth upto 1.5m (P.No.5-I.No.1.4.1)& of PWD SR 21-22 Vol-1								
	For RCC drain at Royal Enclave main rd R/side								
		1	172.00	1.20	1.20	247.68			
	L/side	1	148.00	1.20	1.20	213.12			
	cross rd left side					0.00			
	L/side	1	115.00	1.20	1.20	165.60			
	R/ side	1	64.00	1.20	1.20	92.16			
	sri ram pura main rd	1	124.30	1.20	1.20	178.99			
	at 7th cross	1	120.00	1.20	1.20	172.80			
	for culvert								
	Culvert At Royal Enclave	1	7.50	1.50	1.20	13.50			
		1	13.00	1.50	1.20	23.40			
		1	7.20	1.50	1.20	12.96			
		1	10.00	1.50	1.20	18.00			
		1	7.00	1.50	1.20	12.60			
	At Srirampura Main rd 3rd Cross Nisarga Layout	1	6.70	1.50	1.30	13.07			
		1	7.50	1.50	1.30	14.63			
		1	6.20	1.50	1.30	12.09			
		1	6.10	1.50	1.30	11.90			
		1	6.50	1.50	1.30	12.68			
						1215.16	**Cum**	**175.96**	**213819.91**
	As per tender/Schedule B=1083.48								
	As per Execution 1215.39								
	Qty Upto 125%=1354.35								
2	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.								
	For RCC drain at Royal Enclave main rd R/side								
	FOR BED								
		1	172.00	1.20	0.15	30.96			

Sno	Discription of items	No	L	B	D	Qty	Unit	Rate	Amount
	L/side	1	148.00	1.20	0.15	26.64			
	cross rd left side								
	L/side	1	115.00	1.20	0.15	20.70			
	R/ side	1	64.00	1.20	0.15	11.52			
	sri ram pura main rd	1	124.30	1.20	0.15	22.37			
	at 7th cross	1	120.00	1.20	0.15	21.60			
	for culvert raft/bed								
	Culvert At Royal Enclave	1	7.50	1.50	0.15	1.69			
		1	13.00	1.50	0.15	2.93			
		1	7.20	1.50	0.15	1.62			
		1	10.00	1.50	0.15	2.25			
		1	7.00	1.50	0.15	1.58			
	At Srirampura Main rd 3rd Cross Nisarga Layout	1	6.70	1.50	0.15	1.51			
		1	7.50	1.50	0.15	1.69			
		1	6.20	1.50	0.15	1.40			
		1	6.10	1.50	0.15	1.37			
		1	6.50	1.50	0.15	1.46			
	culvert ramp								
	Culvert At Royal Enclave	2	7.50	1.50	0.15	3.38			
		2	13.00	1.50	0.15	5.85			
		2	7.20	1.50	0.15	3.24			
		2	10.00	1.50	0.15	4.50			
		2	7.00	1.50	0.15	3.15			
	At Srirampura Main rd 3rd Cross Nisarga Layout	2	6.70	1.50	0.15	3.02			
		2	7.50	1.50	0.15	3.38			
		2	6.20	1.50	0.15	2.79			
		2	6.10	1.50	0.15	2.75			
		2	6.50	1.50	0.15	2.93			
						186.24	**Cum**	**5254.08**	**978527.74**
	As per tender/Schedule B.=180.09								
	As per Execution =186.24								
	Qty Upto 125%=225.11								
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from **0.50m to 3.50 m height**. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. **M20** (The cost of steel reinforcement & formwork to be paid separately) (P.No.17-I.No.2.4.2) & of PWD SR 21-22 Vol-1								
	For RCC drain at Royal Enclave main rd R/side								
	Bed Concrete	1	172.00	1.20	0.15	30.96			
	L/side	1	148.00	1.20	0.15	26.64			
	cross rd left side								

Sno	Discription of items	No	L	B	D	Qty	Unit	Rate	Amount
	L/side	1	115.00	1.20	0.15	20.70			
	R/ side	1	64.00	1.20	0.15	11.52			
	sri ram pura main rd	1	124.30	1.20	0.15	22.37			
	at 7th cross	1	120.00	1.20	0.15	21.60			
						133.79			
	For RCC drain at Royal Enclave main rd R/side								
	Side walls	2	172.00	0.15	0.60	30.96			
	L/side	2	148.00	0.15	0.60	26.64			
	cross rd left side								
	L/side	2	115.00	0.15	0.60	20.70			
	R/ side	2	64.00	0.15	0.60	11.52			
	sri ram pura main rd	2	124.30	0.15	0.60	22.37			
	at 7th cross	2	120.00	0.15	0.60	21.60			
						133.79			
						267.59			
	For Culvert Raft								
	Culvert At Royal Enclave	1	7.50	1.50	0.25	2.81			
		1	13.00	1.50	0.25	4.88			
		1	7.20	1.50	0.25	2.70			
		1	10.00	1.50	0.25	3.75			
		1	7.00	1.50	0.25	2.63			
	At Srirampura Main rd 3rd Cross Nisarga Layout	1	6.70	1.50	0.25	2.51			
		1	7.50	1.50	0.25	2.81			
		1	6.20	1.50	0.25	2.33			
		1	6.10	1.50	0.25	2.29			
		1	6.50	1.50	0.25	2.44			
						29.14			
	Culvert Side walls								
	Culvert at royal enclave	2	7.50	0.30	0.75	3.38			
		2	13.00	0.30	0.75	5.85			
		2	7.20	0.30	0.75	3.24			
		2	10.00	0.30	0.75	4.50			
		2	7.00	0.30	0.75	3.15			
	at Sriram pura main rd								
	3rd cross Nisaraga layout	2	6.70	0.30	0.75	3.02			
		2	7.50	0.30	0.75	3.38			
		2	6.20	0.30	0.75	2.79			
		2	6.10	0.30	0.75	2.75			
		2	6.50	0.30	0.75	2.93			
						34.97			
						64.10			
	culvert ramp								
	Culvert at royal enclave	2	7.50	1.20	0.10	1.80			
		2	13.00	1.10	0.10	2.86			
		2	7.20	1.00	0.10	1.44			
		2	10.00	1.00	0.10	2.00			
		2	7.00	1.00	0.10	1.40			
	at Sriram pura main rd								
	3rd cross Nisaraga layout	2	6.70	1.00	0.10	1.34			
		2	7.50	1.00	0.10	1.50			
		2	6.20	1.00	0.10	1.24			

Sno	Discription of items	No	L	B	D	Qty	Unit	Rate	Amount
		2	6.10	1.00	0.10	1.22			
		2	6.50	1.00	0.10	1.30			
						16.10			
	Total Qty (267.59+64.10+16.13)=347.82					**347.79**	**Cum**	**5928.01**	**2061705.562**
	As per tender/Schedule B=348.64								
	As per Execution =347.82								
	Qty upto 125%=435.80								
4	Supplying, Fitting and Placing un-coated **TMT bar Reinforcement** in sub structure complete as per Drawing and Technical Specifications. (P.No. 99, Sl.No. 13.1 Vol - 3, 2021-22) Issue Rate w.e.f 07/07/2022								
	For RCC drain@65kgs/ cum			267.59	65.00	17393.22			
	For culvert@80kgs/cum			64.10	80.00	5128.20			
						22521.42			
						22.52	**M-Ton**	**87192.82**	**1963706.12**
	As per tender/Schedule B=21.57								
	As per Execution=22.52								
	Qty upto 125%					**26.96**			
5	Providing & Fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer incharge . (Approved Data Rate)								
	For RCC drain at Royal Enclave main rd R/side								
	at Royal enclave	1	172.00	0.90		154.80			
	L/side	1	148.00	0.90		133.20			
	cross rd left side								
	L/side	1	115.00	0.90		103.50			
	R/ side	1	64.00	0.90		57.60			
	sri ram pura main rd	1	136.00	0.90		122.40			
	at 7th cross	1	120.00	0.90		108.00			
						679.50	**Sqm**	**1781.92**	**1210814.64**
	As per tender/Schedule B=934.20								
6	Providing & Fixing **RCC Precast cover slab of 230mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer incharge . (Approved Data Rate)								
	FOR CULVERTS								
	For RCC drain at Royal Enclave main rd R/side								
	Culvert at royal enclave	1	7.50	1.50		11.25			
		1	13.00	1.50		19.50			
		1	7.20	1.50		10.80			
		1	10.00	1.50		15.00			
		1	7.00	1.50		10.50			
	at Sriram pura main rd								
	3rd cross Nisaraga layout	1	6.70	1.50		10.05			
		1	7.50	1.50		11.25			
		1	6.20	1.50		9.30			

Sno	Discription of items	No	L	B	D	Qty	Unit	Rate	Amount
		1	6.10	1.50		9.15			
		1	6.50	1.50		9.75			
	As per tender/Schedule B=50.40								
	Total					116.55			
	Qty upto 125%					63.00	Sqm	4331.82	272904.66
	Qty Above 125%					53.55	Sqm	4332.32	231995.93
	As per B asic estimate rate	5037.00							
	tender premium @13.99%	704.68							
		4332.32							
7	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3). (KWPD 2021-22, Vol-III, Item No.1.1 A, Page No.3)								
	Qty vide item no. 1					1215.16			
	Debries					20.00			
						1235.16	**Cum**	**111.63**	**137881.13**
	As per tender/Schedule B=1083.48								
	As per Execution =1218.00								
	Qty upto 125% =1354.35								
8	Cost of Haulage Excluding Loading and Unloading taking output 10 t Load and lead 10 km = 100.t.km (PWD SR 2021-22 Vol-III Page No.3, Item No. 1.4A)								
	lead 8.00km 12.00/km			1226.56	1.28	**1570.00**			
	As per tender/Schedule B.=1386.85					**1570.00**	**T.Km**	**90.82**	**142587.11**
	As per Execution=1581.30								
	Qty upto 125% =1733.56								
							SUB TOTAL Rs.		**7213942.81**
								GST 18%	**1298509.70**
								GRAND TOTAL Rs.	**8512452.51**

CERTIFICATE

1 The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per the PWD SR 2021-22, Issue rates and data rates +/- tender premium.
3 The provisions were made in this estimate are necessary and adequate.
4 The area comes under the Bruhat Beengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.08, Byatarayanapura
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Asst. Executive Engineer
Byatarayanapura Sub-Division
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Executive Engineer
Byatarayanapura Division
B.B.M.P. Bangalore

Technical Sanction
Accorded For Rs. 72,13,942.81
Head of A/C.....
CER NO : TS.83/23-24. Dt 14/3/23

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